ThinkPad P52 20M9001K++

Region
EMEA

Machine Type
20M9

TopSeller
TopSeller

Processor
Core i7-8850H (6C, 2.6 / 4.3GHz, 9MB)

vPro
vPro

Graphics
NVIDIA Quadro P3200 6GB

Chipset
Intel CM246

Memory
8GBx2 non-ECC

Display
15.6" FHD (1920x1080) IPS

Multi-touch
None

Pen
None

Storage
512GB SSD M.2 PCIe NVMe Opal2

RAID
No

Optical
None

WLAN + Bluetooth
Intel 9560 ac, 2x2 + BT5.0

WWAN
None

SIM Card
None

Smart Card Reader
Smart Card Reader

Camera
IR &720p

Keyboard
Backlit

Fingerprint Reader
Fingerprint Reader

NFC
None

Color Calibrator
None

TPM
dTPM 2.0

Battery
6-cell (90Wh)

Power Adapter
170W Slim Tip

Operating System
Windows 10 Pro 64

Warranty
3-year, Onsite

End of Support
Jul 19, 2024

Ann Date (mm/yy)
06/18

Note:
Country Code "US" is for United States, "++" is for EMEA countries (e.g. AD - Saudi, Arabia, AT - Austria, BM - Bulgaria, etc.), "xx" is for EAST countries (e.g. BM - Bulgaria, CX - Hungary, CY - Cyprus, etc.), and "**" is for MEA countries (e.g. AD - Saudi, Arabia, ED - Egypt, EQ - Sweden, etc.). Please be aware that the EMEA/ EAST/MEA models listed above might not be available in all countries

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ThinkPad P52 Platform Specifications

Processor

8th Generation Intel® Core™ i7 Processor or Intel Xeon® E Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
i7-8750H	6	12	2.2 GHz	4.1 GHz	9MB	DDR4-2400	Intel UHD Graphics 630
i7-8850H			2.6 GHz	4.3 GHz	9MB		
E-2176M			2.7 GHz	4.4 GHz	12MB		Intel UHD Graphics P630

Graphics

Intel UHD Graphics 630 or P630 in processor and
NVIDIA Quadro® P1000 (4GB memory), P2000 (4GB memory), or P3200 (6GB memory, VR ready);
supports external digital monitor via HDMI, Mini DisplayPort, or Thunderbolt™;
supports four independent displays;
Max resolution: 3840X2160@60Hz (DisplayPort via Mini DisplayPort cable);
5120X2880@30Hz (Thunderbolt); 4096x2160@60Hz (HDMI)

Chipset

Mobile Intel CM246 Chipset

Memory

128GB non-ECC or 64GB ECC max / 2400MHz DDR4 (ECC function supported only on Xeon processor), dual-channel capable, four DDR4 SO-DIMM sockets
* *Installed DIMMs are actually 2666MHz but run at 2400MHz due to Intel limitation*
* *128GB non-ECC memory for special bid only*

Display

Some: 15.6" (396mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, 72% gamut, 160° viewing angle
Some: 15.6" (396mm) 4K (3840x2160), anti-glare, LED backlight, IPS, 400 nits, 16:9 aspect ratio, 1000:1 contrast ratio, 100% gamut, 170° viewing angle, multi-touch

Multi-touch *(opt)*

Capacitive-type multi-touch, supports 10-finger gesture (4K only)

Pen

Supports pen accessory, please see the accessory compatibility for details

Storage

Up to 3 drives (two M.2 SSD and one HDD)
Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, Active Protection System™
Some: M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s
Some: 16GB Intel Optane™ memory, PCIe NVMe, PCIe 3.0 x 2, 16Gb/s

RAID *(optional)*

RAID 0/1 support

Optical

None

Ethernet

Non-vPro model: Intel Ethernet Connection I219-V (Jacksonville)
vPro model: Intel Ethernet Connection I219-LM (Jacksonville)

WLAN

Intel Wireless-AC 9560, Wi-Fi 2x2 802.11ac + Bluetooth 5.0, M.2 card

Bluetooth™

Bluetooth 5.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WWAN *(optional)*

Integrated Mobile Broadband 4G LTE-A,
Intel XMM™ 7360 (Fibocom L850-GL), M.2 card

SIM card *(opt)*

Nano-SIM card slot, optional Verizon LTE (US) SIM card

Dimensions

WxDxH: 14.86" x 9.93" x 0.96-1.16"; 377.4mm x 252.3mm x 24.5-29.4mm
WxDxH(Touch): 14.86" x 9.93" x 1.02-1.21"; 377.4mm x 252.3mm x 25.8-30.7mm

Weight

Non-touch model: starting at 5.4 lb (2.45kg);
Multi-touch model: starting at 6.4 lb (2.9kg)

Case color

Black

Case material

Display cover: PPS;
Bottom: Magnesium/Aluminum

Smart card reader

Optional: Smart card reader

ExpressCard

None

Media reader

4-in-1 reader (MMC, SD, SDHC, SDXC), supports UHS-II SD card

Ports

Three USB 3.1 Gen 1 (one Always On), two USB Type-C / Thunderbolt 3, Mini DisplayPort 1.4, HDMI 2.0, Ethernet (RJ-45), nano-SIM card slot (WWAN models), headphone / microphone combo jack, optional smart card reader, 4-in-1 reader (MMC, SD, SDHC, SDXC), side docking connector, security keyhole

Camera *(optional)*

One of the following, configurable by model:
- HD720p camera with ThinkShutter camera privacy, fixed focus
- IR camera and HD720p camera, fixed focus

Audio support

HD Audio, Realtek® ALC3286 codec, stereo speakers, 2W x 2, Dolby® Audio™ Premium, headphone / microphone combo jack, Dolby Atmos® headphone, dual array microphone

Keyboard

6-row, spill-resistant, multimedia Fn keys, numeric keypad, LED backlight

UltraNav™

3-button TrackPoint® pointing device and 3-button Mylar surface multi-touch touchpad

Security

Power-on password, hard disk password, supervisor password, security keyhole

Security chip

Discrete TPM 2.0, TCG Certified

vPro *(optional)*

Intel vPro Technology

Fingerprint reader

Touch style match on chip fingerprint reader on the palm rest

Color calibration

None

NFC *(optional)*

Near Field Communication

Battery

Li-Ion 90Wh battery

Max battery life (*MobileMark® 2014*)

Discrete mode: 6.1 hr; *Hybrid mode:* 8.9 hr
* Battery life varies significantly with settings, usage, & other factors

AC adapter

170W slim tip AC adapter

Preload

One of the following, configurable by model:
- Windows® 10 Home 64
- Windows 10 Pro 64
- Windows 10 Pro 64 for Workstations

Limited warranty

One of the following, configurable by model:
- 1-year depot repair service
- 3-year/1-yr battery depot repair service
- 3-year/1-yr battery limited onsite service

Mil-Spec test

MIL-STD-810G military certification

Environment

EPEAT™ Gold; ENERGY STAR® 6.1; RoHS-compliant

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